

Minitom



**Small, automatic
precision cut-off
machine for sectioning
all materialographic and
ceramic specimens**



- **Simple operation**
- **Powerful motor**
- **High precision**
- **Functional design**
- **Easy to clean**

Minitom is a small, low-speed, precision cut-off machine for sectioning all types of materials. Maximum specimen size: 30 mm dia. The cutting speed is continuously variable and the motor is designed to ensure that the selected speed remains constant at any load. The required specimen size can be set with an accuracy of ± 0.01 mm, by means of a micrometer screw, and the cutting pressure can be selected independent of the weight of the specimen. The motor is equipped with a thermal overload protection although prior to actually switching out an overload-indicator provides a visual warning that either the cutting procedure should be stopped or the cutting pressure should be reduced. Minitom can be adjusted to stop cut-

ting at any stage of the operation, e.g. when the material has just been sliced through.

The cutting process is liquid-cooled with the cooling liquid draining back continuously into the coolant tank.

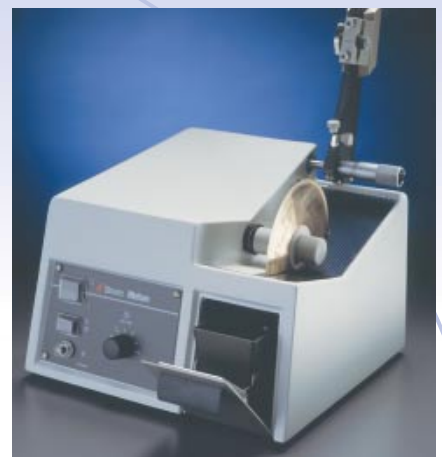
Operation

Minitom is very easy to operate, with fixation of the specimen and the setting of specimen size, cutting speed, and cutting pressure taking only a few minutes. The workpiece is fastened in a holder mounted on a movable arm. This arm acts as a steelyard with two weights, one of which balances the specimen holder with specimen, the other being used to set the exact cutting pressure. During the cutting operation the arm is guided down over the cut-off wheel. When the cutting operation is finished the cut-off wheel stops and the specimen falls into a basket in the coolant tank thus protecting the specimen from drying and making retrieval easy. The coolant tank is very easy to remove



The transparent protection screen allows visual examination during the cutting process without the risk of splashing

Minitom is small, compact and extremely user-friendly



and both the retrieval of the finished specimens and the cleaning of the coolant tank are therefore simple and straightforward.

Minitom's practical and attractive design is the product of a very extensive programme of design development.

Specimen holders

Minitom can be supplied with a variety of specimen holders to suit a wide range of specimen types.

Cut-off wheels

Minitom uses CBN and diamond cut-off wheels with a diameter of 75 mm (3") to 127 mm (5") and a center hole diameter of 12.7 mm (1/2"). The cut-off wheels are available with different grain size and concentration, thus ensuring that the correct cut-off wheel is available for any type of material.



Minitom offers holders for all specimen shapes

Technical specifications

	Voltage: 220 V or 115 V, 50-60 Hz Output: 38 W
Motor shaft	Speed: 100-420 rpm Diameter: 12.7 mm (1/2") Wheel diameter: 75-127 mm (3"-5")
Specimen holder arm	Balances specimen holder with workpieces up to 200 g in weight Cutting pressure: 0-350 g Axial movement: 0-25 mm
Coolant tank	Volume: 250 ml
Dimensions	Width: 280 mm Depth: 400 mm Height: 400 mm Weight: 8 kg

Specifications	Code
Minitom Low-speed precision cut-off machine. Complete with universal specimen holder (ISONI) and flange set 65 mm dia. as well as 42 mm dia. Cut-off wheels are ordered separately 1 x 220 V / 50-60 Hz 1 x 115 V / 50-60 Hz	ISOTO
Coolant Distributor To supply cooling fluid to 75 mm / 3" dia. cut-off wheels.	ISWET
Specimen holders For general use. Vice type with max. opening 25 mm / 1".	ISONI
For long specimens. Double parallel vice with max. opening 25 mm / 1".	ISOLA
For round specimens. Max. opening 30 mm dia.	ISORU
For irregularly-shaped specimens. With 5 screws. Max. opening 30 mm.	ISOSK
For adhesive mounting of specimens. 30 x 40 mm.	ISOFA
For round specimens. Teardrop type with max. opening 20 mm dia.	ISOOP
Swivel Arm For angling the specimen about 15° in all directions. To be mounted instead of the normal arm on Minitom	ISARM

Struers' products are subject to constant product development. Therefore, we reserve the right to introduce changes in our products without notice.



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